

BANGALORE UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15/

Date: 23-03-2015

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Improvements and Asphaltting to Siddalingeshwara Layout Balance Roads in Ward No No.09 in Vidyaranyapura Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15/ dated 20-03-2015

Sample supplied to lab by: Sri.R,Madhusudhan, Contractor, Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	97.10	95-100
26.50	---	-
22.40	74.00	60-80
11.20	48.60	40-60
4.75	35.00	25-40
2.36	24.00	15-30
0.600	18.50	8-22
0.075	5.10	0-8

TABLE 1.2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) - 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	25.20 %	Not more than 30 %
2	Impact Value	----,,----	23.90 %	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM

*As Furnished by Client

The Results relate only to the items tested.

Page No. 1/1,


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Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Improvements and Asphalting to Siddalingeshwara Layout Balance Roads in
Ward No.09 of Vidyaranyapure Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 20-03-2015

Sample supplied to lab by: Sri.R.Madhusudhan, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapure Sub-Division.
BBMP, Bangalore.

TEST RESULTS

1. Gradation Test: TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	95.70	95-100
26.50	---	-
22.40	72.00	60-80
11.20	42.60	40-60
4.75	31.60	25-40
2.36	24.70	15-30
0.600	18.50	8-22
0.075	4.00	0-8

*As Furnished by Client

The Results relate only to the items tested

Page No. 1/2

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Date: 23-03-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	23.90%	Not more than 30 %
2	Impact Value	----,,----	25.10%	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM

*As Furnished by Client

The Results relate only to the items tested.

Page No. 2/2,



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BUB/CTE/2014-15/

Date: 28-03-2015

TEST REPORT ON BITUMINOUS MIXES (BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: Testing of Bitumen Premix Sample (Semi Dense Bituminous Concrete-SDBC).

{Project*: Improvements and Asphaltting to Siddalingeshwara Layout Balance Roads in
Ward No.09 of Vidyananyapure Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 26-03-2015

Sample supplied to lab by: Sri.R.Madhusudhan, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyananyapure Sub-Division.
BBMP, Bangalore.

TEST RESULTS:

1. The bitumen content obtained after subjecting the sample for Bitumen
Extraction test = 5.04 %
2. Gradation Test :

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading - 2)
13.2	100	100
9.5	96.30	90—100
4.75	42.10	35—51
2.36	36.00	24—39
1.18	19.60	15—30
0.3	17.40	09—19
0.075	4.50	03—08

* As furnished by Client.

The Results relate only to the items tested.

Page No. 1/2

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Date: 28-03-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	23.60%	Not more than 30 %
2	Impact Value	----,,----	24.70 %	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM
3	Water absorption	----,,----	0.40%	Not more than 1.0 %
4	Stripping test. (Coating and stripping of Bitumen aggregate mixtures)	----,,----	97.50 %	Minimum retained coating 95.0 %

*As Furnished by Client

The Results relate only to the items tested.



Page No. 2/2

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